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1906 1907

BRUNSWICK, MAINE

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# CATALOGUE OF THE MEDICAL SCHOOL OF MAINE, THE MEDICAL DEPARTMENT OF BOWDOIN COLLEGE

FOR THE EIGHTY-SEVENTH YEAR

1906 1907

BRUNSWICK, MAINE

PRINTED FOR THE COLLEGE, MDCCCVI

PRESS OF THE BRUNSWICK RECORD
BRUNSWICK, MAINE

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*8 College Street, Brunswick.*

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ALBERT ISAIAH YORK, M. D.,
VISITORS FROM THE MAINE MEDICAL ASSOCIATION

# GRADUATES OF 1906.

HARRIS CLARK BARROWS, A. B. ..... Augusta
ARTHUR OSMAN DAVIS ..... Bridgton
JOHN LEWIS DAVIS ..... Portland
LOUIS ANDREW DERRY, A. B. ..... Portland
FRANK LESLIE FERREN ..... Levant
STANWOOD ELMER FISHER ..... Portland
LEONARD HARRIS FORD, B. S. ..... East Eddington
PERCY EMERTON GILBERT, A. B. ..... Waterville
SCOTT GODDARD LARRABEE ..... Scarboro
HOMER ELBRIDGE MARKS ..... Portland
JOSEPH RANDALL RIDLON, A. B. ..... Gorham
WALTER JOSEPH ROBERTS ..... Kennebunk
ATHERTON MONETTE ROSS ..... Phillips
HARRY WILLIAM SAMPSON ..... Monson
ALFRED HERMAN SCHRIVER ..... Temple
ADAM SHAW, JR ..... Lowell, Mass.
FRANCIS JOSEPH WELCH, A. B. ..... Portland

# STUDENTS IN 1906.

## FOURTH YEAR.

| Name | Residence | Room |
|---|---|---|
| Barrows, Harris Clark, A. B. | *Augusta* | *26 Arsenal St. |
| Davis, Arthur Osman | *Bridgton* | 46 Ellsworth St. |
| Davis, John Lewis | *Portland* | 328 Fore St. |
| Derry, Louis Andrew, A. B. | *Portland* | 44 Carlton St. |
| Ferren, Frank Leslie | *Levant* | 46 Ellsworth St. |
| Fisher, Stanwood Elmer | *Portland* | 26a Brackett St. |
| Ford, Leonard Harris, B. S. | *East Eddington* | 46 Ellsworth St. |
| Gilbert, Percy Emerton, A. B. | *Waterville* | 141 Neal St. |
| Larrabee, Scott Goddard | *Scarboro* | 766 Congress St. |
| Marks, Homer Elbridge | *Portland* | 24 Arsenal St. |
| Ridlon, Joseph Randall, A. B. | *Gorham* | 24 Arsenal St. |
| Roberts, Walter Joseph | *Kennebunk* | 301 Brackett St. |
| Ross, Atherton Monette | *Phillips* | 301 Brackett St. |
| Sampson, Harry William | *Monson* | 151 Spring St. |
| Schriver, Alfred Herman | *Temple* | 924 Congress St. |
| Shaw, Adam, Jr. | *Lowell, Mass.* | 924 Congress St. |
| Welch Francis Joseph, A. B. | *Portland* | 230 Danforth St. |

## THIRD YEAR

| Name | Residence | Room |
|---|---|---|
| Dolloff, David Ernest | *Monroe Brooks, P. O.* | *26 Arsenal St. |
| Everett, Harold Josselyn, A. B. | *Portland* | 5 Bramhall St. |
| Foster, Ralph Waldo | *Milbridge* | 16 Westcott St. |
| Keller, Benjamin Henry | *Appleton* | 768 Congress St. |
| Lewis, William Jerris | *S. Framingham, Mass.* | 118 Spring St. |
| Mason, Henry Broadstreet | *Brooks* | 26 Arsenal St. |
| Moore, Roland Banks | *Portland* | 23 Bramhall St. |
| Newcomb, Charles Howard | *Newburgh Village* | 26 Arsenal St. |
| North, Charles David | *Turner* | 768 Congress St. |
| Pettingill, Olin Sewall | *Wayne* | 16 Westcott St. |
| Priest, Maurice Albert | *Shawmut* | 16 Wescott St. |
| Ridlon, Magnus Gervise | *Porter* | 16 Westcott St. |

*The room of Third and Fourth Year students is in Portland unless otherwise stated.

Rowe, William Thomas, A. B.....*Portland*..... 45 Waterville St.
Saunders, Henry Clayton, A. B.....*Portland*.....196 Federal St.
Sawyer, Alfred Loomis, A. B.....*Fort Fairfield*....302 Brackett St.
Sturgis, Karl Brooks .....*Auburn*..... 302 Brackett St.
Varney, Fred Lord.....*Enfield*.....141 Neal St.
Wyndham, Charles Arnold.....*Lisbon Falls*.....16 Westcott St.

## SECOND YEAR.

| Name | Residence | Room |
|---|---|---|
| Abbott, Henry Wilson | *Waterville* | 7 Potter St. |
| Atwood, Harold Fisher | *Norwood, Mass.* | 30 Cumberland St. |
| Bibber, Harold Thornton | *Bath* | 327 Front St., Bath |
| Buker, Edson Bayard, B. S. | *Waldoboro* | 86 Federal St. |
| Crane, James Wilder | *Whiting* | 30 Cumberland St. |
| Foster, George Adams, A. B. | *Bangor* | 7 W. H. |
| Geer, George Independence | *Westbrook* | 172 Maine St. |
| Greene, John Adolph, A. B. | *Brunswick* | 262 Maine St. |
| Hanson, Millard Parker | *Bath* | 46 Ellsworth St. |
| Hasty, Willis LeRoy | *Thorndike* | 51 Pleasant St. |
| Jones, Arthur Leon, A. B. | *Old Orchard* | 31 A. H. |
| McKay, Roland Lee | *Bowdoinham* | Bowdoinham |
| Mullen, Seth Smith | *Vinalhaven* | 1 W. H. |
| Potter, John Garfield | *Providence, R. I.* | 172 Maine St. |
| Precour, George Charles | *Saco* | 30 Cumberland St. |
| Sawyer, Samuel Ellison, A. B. | *Lewiston* | Lewiston |
| Staples, Ivan | *Limerick* | 30 Cumberland St. |
| Stewart, Ralph Carroll, A. B. | *New Vineyard* | 23 W. H. |
| Stone, George Henry, A. B | *Portland* | 23 M. H. |
| Thayer, Harold Hamilton, A. B. | *South Paris* | 179 Park Row. |
| Twaddle, Widd Browne | *Bethel* | 12 Pleasant St. |
| Tucker, George Everett, A. B. | *Hyde Park, Mass* | 7 W. H. |
| Whitney, George Burgess, A. B. | *Marlboro, Mass* | 5 Bath St. |
| Whitney, Harlan Ronello | *Portland* | 185 Maine St. |
| Williams, Edmund Percy, A. B. | *Topsham* | 23 W. H. |
| Woodruff, John Hamilton, A. B. | *Brunswick* | 262 Maine St. |

## FIRST YEAR.

| Name | Residence | Room |
|---|---|---|
| Ball, Henry Whitney | *Mt. Desert Ferry* | 16 Lincoln St. |
| Bolster, William Wheeler, Jr., A. B. | *Auburn* | 7 M. H. |
| Bunker, Willard Hiram | *Red Beach* | 5 Bath St. |
| Cleaves, Elmer Morse | *Bar Harbor* | 10 Harpswell Place |

Cunningham, Charles Hunter.....*Strong*.....Delta Upsilon House
Curtis, Charles Leverett.....*Middleton, Mass*....9 Cleaveland St.
Edwards, Harold Merton.....*Lewiston*.....Kappa Sigma House
Fahey, William Joseph.....*Lewiston*.....25 W. H.
Higgins, George Ivery.....*Clinton*.....9 Cleaveland St.
Humphreys, Ernest Davis.....*Henderson*.....186 Federal St.
Mabry, Irving Ellis, A. B.....*East Hiram*.....17 Cleaveland St.
Merrill, Walter Irving.....*Portland*..... ....7 Everett St.
Mikelsky, Frank, A. B.....*Brunswick*.....19 M. H.
Murphy, John Luke.....*Bartlett, N. H*.....185 Maine St.
Parcher, George.....*Ellsworth*....Beta Theta Pi House
Peaslee, Pearl Everett.....*Thomaston*.....10 Cleaveland St.
Pendexter, Sidney Eugene.....*Portland*.....7 Everett St.
Simmons, Clarence Raymond.....*Appleton*.....6 Cleaveland St.
Webster, Francis Howe, B. S.....*Castine*.....6 Cleaveland St.
Wilson, Charles Moore,.....*Waterford*..... ..216 Maine St.

# ANNOUNCEMENT.

The Medical School of Maine, established by the first legislature of the State, was by its charter placed under the control of the Boards of Trustees and Overseers of Bowdoin College, of which institution it is the Medical Department.

Its course of instruction covers four years of eight months each. The studies are distributed through the curriculum according to the following schedule:

*First Year:* Anatomy, Histology, Physiology, Chemistry and Personal Hygiene.

*Second Year:* Anatomy, Physiology, Chemistry, Pathology, Bacteriology.

*Third Year:* Internal Medicine, Surgery, Materia Medica and Therapeutics, Diseases of Women, Obstetrics, Diseases of the Skin.

*Fourth Year:* Internal Medicine, Surgery, Materia Medica and Therapeutics, Medical Jurisprudence, Public Hygiene, Diseases of Women, Diseases of Children, Diseases of the Mind, Neurology, Clinical instruction in Diseases of the Skin, Diseases of the Genito-Urinary System, Diseases of the Eye, Diseases of the Ear, Diseases of the Joints, Diseases of the Nose and Throat.

The students of the first and second years are instructed at Brunswick, where the school has been situated since its foundation in 1820, and where the facilities are excellent for imparting a knowledge of the primary branches. The third and fourth year classes are taught in Portland on account of the superior clinical advantages afforded in that city. The building designed for the use of the school and now occupied by it furnishes ample accommodations for the advanced classes. The location of the building is on Chadwick Street,

SCHOOL BUILDING, PORTLAND

near the Maine General Hospital, in which institution nearly all the teachers in the school are medical or surgical officers and the Directors of which are in full sympathy with the purposes of the Faculty.*

While the Maine General Hospital (a view of which is given on the last page of the book) is the chief source of supply of clinical material for the school, Portland has a number of other institutions which will contribute to the bedside instruction of the students; and the various teachers, as opportunity permits, will show individual pupils interesting cases in their private practice.

The eighty-seventh annual course will begin on Thursday, the 25th of October, 1906, and will continue eight months.

Examination for *admission to the school* will be held at nine o'clock on the morning of the first day, Thursday the 25th of October, in Brunswick.

Final examinations for each class will be held in the period from the 12th to the 26th of June, inclusive.

Re-examinations, deferred examinations and examinations for advanced standing for those who desire to enter the second year will be held in Brunswick, on Friday, the 26th of October. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for advanced standing for those wishing to enter the third year will be held in Portland on Saturday, October 27th. Examinations in anatomy at nine o'clock A. M., in physiology at 2 o'clock P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 26th and 27th, at hours to be hereafter appointed.

*The electric cars (Spring Street line—blue) run on Vaughan Street, which is but one block from the School; and free transfers may be had from the Congress Street line (green) and the Middle Street line (red), so that one can easily reach the School from either end of the city, and from the Union, Grand Trunk and Rochester railway stations.

At the end of the first, second and third years, students who have passed successful examinations will receive certificates from the Dean.

A student who fails to pass any branch at the required examination in June, may present himself for re-examination at the beginning of the next course; if he then fails to pass or fails to present himself, he may be examined at the end of three weeks at the examination provided for those who enter late. If he fails at this examination he shall not again be examined in that branch until the expiration of the year, unless admitted to conditions by vote of the faculty on recommendation of the head of the department in which he has failed.

On recommendation of the head of a department, any student who has failed on examinations as above provided in the study of that department, may by vote of the faculty be allowed to enter upon the work of the next year, but he shall not be admitted to any examination of that year until he shall have passed a satisfactory examination in the study or studies which he had previously failed to pass.

No students will be admitted to the privilege of conditions if he has failed in more than two departments.

Every student who fails to maintain a satisfactory standard of work, will be warned of his deficiency from time to time, before the end of the term.

An examination which is not completed receives no consideration.

The systematic courses of instruction will begin on Monday morning, the twenty-ninth of October.

On arriving in Brunswick students should apply at the office of the Dean in the medical building, enter their names, receive directions concerning their examinations, if any are needed, pay their fees and be advised as to boarding places.

In Portland they should apply at the office in the medical building for the same purposes. Dr. Charles O. Hunt will act as deputy dean.

## EXPENSES.

*For Instruction:*

In each of the required four years $100. After attendance upon four full courses payment of the Matriculation fee only will be required.

*For Examinations:*

Payable at the end of the first year,

| | |
|---|---|
| In Anatomy, | $5.00 |
| In Physiology, | 5.00 |
| In Chemistry, | 5.00 |

Payable at the close of the term of instruction in Obstetrics, for examination in this branch, 5.00

These four fees are credited on the diploma or graduation fee.

For every re-examination in any of the above studies, $3.00

This fee is not credited on the diploma fee.

For examination or re-examination in any branch at a time not regularly appointed, the student shall pay a fee of $5.00 in addition to the prescribed fee for that examination.

*Miscellaneous:*

The Matriculation fee of $5.00 is required of every student each year.

For materials used in the chemical laboratory courses, $4 for first course, $3 for second course, payable in advance.

Material used in the physiological laboratory furnished for $2.00.

For materials used in the bacteriological laboratory about $2.00.

For anatomical material, its cost, payable in advance.

For graduation fee (not returnable), including the parchment diploma, $25. This will have been nearly paid in the examination fees of the previous years.

Graduates of other schools, who have been engaged three years in the regular practice of medicine, may receive a general ticket upon presentation of their diplomas and payment of the matriculation fee. Graduates of other schools are not eligible for a degree from this school without attendance upon a full course of instruction immediately preceding the examination for such a degree.

All fees must be *paid in cash* and *strictly in advance.*

Unfurnished rooms heated by steam can be secured in the College dormitories at a rental of from $72 to $108 for each course. Furnished rooms outside the College can be obtained at a rental of from $1.50 to $2.50 per week according to the conveniences. A sharing of the above expenses by two students evidently brings the cost within reasonable limits.

The price of board is from $3.00 to $3.50 a week.

The cost of living in Portland has been found to be not in excess of that at Brunswick.

$15 to $25 a year covers the cost of books.

## REQUIREMENTS FOR ADMISSION.

Applicants for admission will be required to give evidence that they possess a good English education, and unless they present diplomas or entrance-tickets as provided below, they must pass examinations in the following studies:

*English:*—Spelling, writing, construction of sentences and English grammar in general.

*Arithmetic:*—As represented in the larger common-school text books on the subject.

*Algebra:*—Including addition, subtraction, multiplication, division, factoring and simple equations, as, for example, the first eleven chapters in Wentworth's New School Algebra.

*Geometry:*—Including at least three books of some standard plane geometry, as Wells' or Wentworth's.

*History of the United States:*—To the extent afforded in the ordinary school history, such as Montgomery's.

*Physics:*—Elementary principles, as taken up in any standard school text book. Such topics as the following should be specially studied: Energy, mass, specific gravity, flow of liquids and gases, action of heat and pressure, wave motions, construction and use of thermometers, reflection and refraction of light, movement of sound, development of electricity and magnetism and their general laws.

*Chemistry:*—The principles of inorganic chemistry, as taken up in any standard school text book. The study should have been pursued by the laboratory method, or at least with illustrative experiments by the teacher.

*Latin:*—Including sight-reading of easy Latin, a knowledge of the construction of Latin sentences, and the reading of some standard Latin author, as Cæsar or Virgil. At least two years should have been spent in the study of Latin in some good school.

Those who are graduates of Colleges, Normal Schools, High Schools, or Academies, or have passed the entrance examination to any recognized College, on presentation of their diplomas or matriculation tickets, will be exempt from examination, provided that their previous studies have included Latin, Chemistry and Physics, to an extent not less than herein prescribed; but if their previous studies have not included Latin, Chemistry and Physics to the required extent, they must be examined upon these branches and their diplomas or matriculation tickets will exempt them from examination in the other branches. All without exception who have not such diplomas or tickets will be required to pass the entire entrance examination.

Business colleges are not recognized.

Students from other schools who apply for advanced standing must comply with the requirements for admission

to the first year, must give satisfactory evidence that they have completed a course or courses of instruction, equivalent in kind and amount to that or those in this school preceding that to which admission is sought, and must pass examinations in all of the branches previously pursued by the class which they wish to enter. Certificates of the passage of examinations in other schools are not accepted in lieu of examinations.

Students in the Senior Class of the Academic department are permitted to take the studies of the first year in the Medical department and thus are eligible for the first year final Medical examinations.

It is desired that a literal interpretation shall be placed upon the stated requirements of the candidates for matriculation, as hitherto there have been not infrequent examples of those who inquire if other conditions than those named will not serve in lieu of the examination. The same consideration is asked for the explicit condition named as regulating the pre-payment of fees in cash.

## REQUIREMENTS FOR ADMISSION IN 1907.

In place of the requirements for admission to the first year hitherto announced for and after the Autumn of 1907, there will be substituted the following requirements of the Association of American Medical Colleges, with the exception that one year of Chemistry be specifically required.

Section 1. (a) A bachelor's degree from an approved college or university.

(b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades, and for graduation not less than four years of study embracing not less than two years (4 points) of foreign languages, of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year

(2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches: A. Required (18 points): Mathematics (4 points); English (4 points); history (2 points); language (4 points—2 must be Latin); science (taken from physics, chemistry, botany; zoology; 4 points). B. Optional (to 12 points); English (2 points); history (6 points); language (6 points); manual training (2 points); mechanical drawing (1 point); natural science (botany, zoology; 2 points); physical science (chemistry, physics; 2 points); trigonometry (1 point); astronomy (1); civics (1); geology (1); physical geography (1); physiology and hygiene (1); political economy (1)—not more than 3 points accepted.

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

(d) Certificates from reputable instructors recognized by the superintendents hereinafter to be mentioned, or by any state board of medical examiners duly authorized by law, may be accepted in lieu of any part of this examination.

Section 2. This examination will be conducted by the Superintendent of Schools of Brunswick.

Section 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

## GRADUATION.

A candidate must be twenty-one years of age, and must have devoted to his professional studies four years, including a course of instruction in each of these years in some reputable, regular, incorporated medical institution, and the last

course previous to examination must have been in this school. He must present a satisfactory certificate of good moral character from a citizen of the town in which he resides. He must also pass a satisfactory examination in the required studies previously specified and present a thesis on some medical subject, a fair copy of which must be handed to the Dean, at least ten days before the beginning of the final examinations.

Time spent in pharmacy, dental and veterinary institutions, and in preparatory schools does not entitle a student to examination for advanced standing.

A student who has received the degree of A. B., B. S., or any similar degree after four years of study in a recognized college or technical school if his studies have included a satisfactory amount of chemistry, physics and biology, may be admitted as a second year student, but when so admitted he shall not gain third year standing until he has passed satisfactory examinations in the studies of the first and second years. The faculty of this School are unanimously of the opinion that only under most exceptional conditions should this requirement be made available, and that practically a student ought not to enter upon the studies of the second year until he has passed satisfactory examinations in the studies of the first year.

## METHODS OF INSTRUCTION.

In order to afford to students who contemplate entering the school an idea of the facilities presented by this institution for acquiring a knowledge of the science and art of medicine, a brief statement is here made of the scope of the work in each department and the methods adopted for imparting instruction.

### ANATOMY.

The course in this branch extends over two years and covers every portion of human anatomy with special refer-

ence to its application in the practice of medicine and surgery. The scope is so extensive as to require a number of instructors and a division of the work; but an attempt is made to harmonize the various divisions and enable students to spend their time to the best possible advantage. In the lecture room every part of human anatomy is taken up by systems as arranged in Gerrish's Text-Book. Some subjects are treated by lectures and many by demonstrations, but the greater part of the work consists of recitations and demonstration quizzes.

First year students study histology, osteology, arthrology and visceral anatomy, including the study of the cerebrospinal axis and organs of the special senses. Second year work includes the remainder of systematic anatomy and relational anatomy. The class room work is made valuable by the exhibition of dissected parts, models and casts; and from time to time students are required to present drawings of different organs. Considerable attention is also paid to surface anatomy, which is studied on the living model.

During the first year, every tissue and organ is studied miscroscopically in the histological laboratory and reproduced by free hand drawing. Late in the term, first year students dissect some of the higher vertebrates or such parts of human anatomy as are included in their work. In this way they not only reinforce their text book knowledge but acquire manual dexterity invaluable to them for the dissecting-room work of their second year.

The practical gross anatomy is taken up late in the second year after the entire subject of anatomy has been studied by systems in the class room. A period of six weeks is devoted to this work, during which time no other exercises are held for second year men in this or any other department and each student is required to dissect an entire lateral half of the human body.

At the end of the first year, students are required to pass

a written and an oral examination in the work of the year and to identify organs and tissues that they have studied, gross and microscopic. Second year students must pass a written and oral examination in the work of their year and identify the parts of the dissected human subject.

Before coming to the school students can do much to equip themselves for appreciation of human anatomy by making dissections of some lower animals and are advised to follow the directions prescribed in "Physiology Practicums" which will be sent post-paid for one dollar by the author, Prof. B. G. Wilder, Ithaca, N. Y.

The Anatomical Museum is well supplied with wet and dry specimens, casts and models and a large number of disarticulated skeletons are provided which may be borrowed by the class.

## PHYSIOLOGY.

Instruction in this department is conducted with reference to the practical application of the facts of human physiology to the needs of the student, in his study of the diagnosis and treatment of disease. Class room demonstrations and experimental laboratory teaching are employed, so far as they can be made to serve this purpose.

The instruction will begiven by practical laboratory work, text book recitations and supplementary lectures.

A new laboratory fully equipped with the Harvard apparatus is now available.

The work of the first year will be devoted to study by practical laboratory exercises, extending over half the term, of the functions of Nutrition. Special attention will be given to the physiology of nerve and muscle, of the Blood, including its microscopical study; Digestion and the phenomena and physics of the Circulation and Respiration. Students will be taught to demonstrate for themselves the essential facts connected with these functions.

Written reviews will be held from time to time besides regular quizzes upon both the didactic and laboratory work.

The work of the second year will be devoted to the study of Reproduction, the Nervous System, the Special Senses and the physiology of Voice and Speech.

The department is well equipped with charts, models and apparatus for demonstration and experimental work, admirably adapted to aid in giving students a thoroughly practical course in Physiology.

A laboratory fee of $2.00 will be charged to defray cost of material which must be paid in advance before beginning the laboratory course. Students will furnish at their own cost necessary instruments for nerve-muscle dissection and will be charged extra with the cost of any breakage of apparatus.

In connection with this course several hours will be devoted to the subject of Personal Hygiene.

## CHEMISTRY.

The chemical courses extend over the first two years. They consist of lectures, conferences and laboratory work, occupying from three to six hours per week for each class. As a knowledge of general inorganic chemistry is required for admission, first year men begin with the application of general chemistry to the qualitative analysis of simple substances. This is followed by the principles and practice of quantitative analysis, especially volumetric.

The examples used in analysis are selected with special reference to the work of a physician, and include water, air, and the inorganic poisons. The analytical courses take the first half year.

The second half year with first year men is given to general organic chemistry, in which the structure, preparation and relation of structure to properties are illustrated in cases of the simpler compounds.

Second year students begin with a study of the more complex organic compounds related to medicine, such as the synthetic coal tar compounds, the alkaloids, ptomains and leucomains.

This is followed by physiological chemistry including analysis of urine and other secretions.

The aim is to make the chemical courses as practical as possible. To this end the student is taught to prepare many of the solutions and test substances, as well as to use them. He is taught also how to construct apparatus, manipulate glass tubing, etc. The facilities afforded by the Searles Science Building make it possible to do this to an unusual degree.

Students who have completed in other schools, courses of study equivalent to the above, may, upon examination, be excused from any of them.

Each student is required to pay in advance a laboratory fee, covering the average cost of chemicals, gas and water. This is $4 for first year men and $3 for second. In addition each will pay for apparatus broken or not returned at the end of the term.

## OBSTETRICS.

Instruction in this department will be given by lectures and recitations. The instructor in Obstetrics will demonstrate for the class, in sections, work on the manikin: the diagnosis of position and presentation, the mechanism of normal labor; the manœuvers necessary in the delivery of abnormal cases, version and application of forceps. Each member of the class will have a chance to perform these various manipulations.

It is hoped that an arrangement will be made whereby the city maternity cases will be at the disposal of the teachers, so clinical instruction may be given to the class in sections, and individual cases furnished for each member.

## INTERNAL MEDICINE.

Instruction in this department continues throughout the third and fourth years. During the first third of the third year the time is devoted mainly to the study of Diagnosis. The remaining weeks of the course include consideration of special diseases following the order usually found in standard text-books. The fourth year comprehends the study of such special diseases as were not considered in the preceding year.

In connection with this department there will be given special and additional instruction relating to the conduct of life insurance examinations.

During both years class room instruction is given didactically and by means of regular recitations.

A clinic is held at the Maine General Hospital upon each Thursday morning from nine to eleven o'clock; the material being received from the wards of the hospital and occasionally from outside sources.

Care is taken to afford the students opportunities for personal examination of cases with the prominent object of having them become familiar with physical signs. It is hoped that material of the City Hospital and patients out of the hospital, under the care of the City Physician, may be made available during the coming year.

This department recognizes with that of Surgery our special indebtedness to the Staff of the Portland Charitable Dispensary in that it affords sections of our classes opportunities for clinical observation and physical exploration.

## PATHOLOGY AND BACTERIOLOGY.

The new, commodious and amply equipped laboratory in Seth Adams Hall gives excellent facilities for instruction in bacteriology and pathological histology. The course in clinical pathology is given in the laboratory at the school building in Portland.

Instruction is given by lectures, recitations and laboratory work. For convenience it is divided into four courses.

1. Bacteriology. This course is given to second year students and occupies fourteen hours a week from the beginning of the term until the Christmas recess. Each student is required to cultivate on media twelve varieties of pathogenic bacteria and to study their characteristics. Principles of disinfection are studied, and verified by experiment. A limited number of inoculation experiments are performed. Students make bacteriological examination of water and milk. Special attention is given to the laboratory diagnosis of tuberculosis, diphtheria and typhoid fever.

2. General Pathology, including Pathological Histology. This course is given to second year students. Instruction occupies fourteen hours each week, and lasts from January 1st to April 1st. McFarland's text book is used as a basis for this course. The text book is supplemented by lectures on special subjects. As far as possible the consideration of a subject in the class-room is followed by a study of the same subject in the laboratory. During the latter part of the course much time is given to diagnosis work upon microscopical preparations.

3. Blood Examination. This is a short course given to second year students during the last week in May and the first week in June. Students are trained in counting the red and white corpuscles, in estimating the amount of hemoglobin, in preparing and examining fresh and stained specimens.

4. Clinical Pathology. This course is given to third year students. It includes instruction given as opportunity occurs at the surgical clinics and a fifty hour course at the school laboratory in Portland. In this course each student examines microscopically the tissues and other pathological material obtained at the clinics at the Maine General Hospital.

## SURGERY.

The instruction in surgery is given by lectures, recitations, demonstrations, clinics, diagnosis exercises on the patient, and operations on the cadaver. It extends throughout the third and fourth years of the course, and in the highest possible degree is practical in character.

In the didactic course the recitation method is employed for the most part, as being particularly helpful to the students,—necessitating careful preparation of each lesson, allowing no essential point to be slighted, and stimulating pride by the certainty of each that his work will be compared with that of his fellows. But the lecture method is used whenever it seems serviceable, as in the introduction of new topics, the presentation of the salient features of unfamiliar subjects, and the explanation or amplification of matters not adequately treated in the text book.

The students perform a large variety of operations upon the cadaver, under the immediate direction and supervision of the teacher. The application of bandages and other dressings is taught in the most practical manner.

The principal clinical teaching is given at the Maine General Hospital by the seven visiting surgeons, all of whom are professors, assistant professors, or clinical instructors in the School. Twice in each week some of these teachers hold exercises in diagnosis, in which the students are instructed in proper methods, and privileged to make personal examination of cases. Sections of the class are taken in turn through the wards, and are given opportunities for the observation of the after-treatment and progress of patients, upon whom they have seen operations performed. A system of notification by telephone enables the students to obtain prompt information of accident cases, which are brought into the Hospital. The amount of clinical material at this institution far exceeds the capacity of the classes to appropriate it without neglecting other and essential studies.

The surgeons of the Portland Charitable Dispensary permit sections of the class to observe cases at their daily service—a privilege highly valued and constantly accepted, as the kind of diseases is largely different from those usually seen at the Hospital. The City Hospital, also, occasionally presents interesting and useful material.

### MATERIA MEDICA AND THERAPEUTICS.

Instruction in this department is given during the third and fourth years.

In the third year the teaching is by lectures and quizzes. Special attention is given to the study of pharmacology, or the action of drugs; as it is only by a thorough knowledge of this part of the subject that medicines can be properly employed for the correction of the abnormal conditions found in disease.

Considerable time, every week, is devoted to prescription writing. By this exercise, students not only learn to write prescriptions correctly, but to make application of their knowledge of drugs in the treatment of disease. They are required to prescribe for supposed patients, a description of whose symptoms has been given them. These prescriptions are put before the class for criticism and discussion, and have proved very useful in making their knowledge of drugs definite and practical.

In the fourth year the lectures and quizzes will be continued, and there will also be a recitation course in practical therapeutics. These courses supplement each other. In the course of Materia Medica we study individual drugs, and learn how they may modify certain conditions, which may be found in many different diseases. In the course on therapeutics, we study the symptoms of a given disease, and learn what different drugs we may employ to relieve them.

### MEDICAL JURISPRUDENCE.

The instruction in Medical Jurisprudence will be directed mainly to an exposition of the legal duties and responsibili-

ties of physicians and surgeons to their patients and also to their character and position as medical expert witnesses in Courts of Justice. Practical suggestions will be given for guidance in both respects.

### GYNÆCOLOGY.

The course in Diseases of Women will continue through the third and fourth years. By a new arrangement, third year students will have work mainly didactic in character.

Dr. Willis Bean Moulton will in the fourth year conduct a course in the Pathology of Diseases of Women.

There will also be weekly clinics for fourth year students, at which the examination of female patients will be an important feature.

### DISEASES OF CHILDREN.

Instruction will be given by recitations, lectures, clinical demonstrations, and study of cases by individual students with reports and discussions by members of the class.

### MENTAL DISEASES.

The professor of this department is chief medical officer of the Pennsylvania Hospital for the Insane. Especial efforts are made to instruct the students in the early recognition of insanity, with a view to the institution of treatment at the time when it is most productive of good results.

### OPHTHALMOLOGY AND OTOLOGY.

The instruction in these departments will be given by lectures and clinics. A weekly clinic will be held at the Hospital on Saturday, at 9 A. M. The various diseases will be described as cases illustrating them are available for demonstration; operations will be performed when required; and other treatment applied as may be necessary.

### PUBLIC HYGIENE.

Instruction is given by the Professor of Physiology who is a member of the State Board of Health, by lectures upon

the principles of Public Sanitation, considering the source and character of public water supplies and the collection and disposal of waste, with special reference to preventable diseases.

Several hours are devoted to sanitary legislation and the relations and obligations of the practicing physician to public and health-boards, in the management of infectious diseases.

### NEUROLOGY.

Instruction in Neurology will be given to the fourth class each week throughout the course by lectures, clinics and quizzes, two hours of each week being devoted to such instruction.

### GENITO-URINARY SURGERY.

Instruction in Genito-Urinary Surgery will be given to the fourth class each week during the first half of the course.

### DERMATOLOGY.

Instruction in Dermatology will be given to the third year class each week during the first half of the course.

### ORTHOPEDIC SURGERY.

A clinic in Orthopedic Surgery will be held at the Hospital on each Friday morning at 9 A. M.

### DISEASES OF THE NOSE AND THROAT.

The fourth class will receive special instruction, both didactic and clinical in Diseases of the Nose and Throat.

## SCHEDULE FOR THE FIRST YEAR

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| ANATOMY | | 8—11 | | 8—11 | 8—11 | |
| CHEMISTRY | 2.30—5.30 | | 2.30—5.30 | | 2.30—5.30 | |
| PHYSIOLOGY AND PERSONAL HYGIENE | | | 8—11 | | | 8—11 |
| HISTOLOGY | 8—11 | | | | | |
| April 8—May 22 ANATOMY (Dissecting) | | 11—12 1.30—5.30 | | 8—11 1.30—5.30 | | 1.30—5.30 |

## SCHEDULE FOR THE SECOND YEAR

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|---|---|---|---|---|---|---|
| ANATOMY | | 8—9 | | | 8—9 | |
| CHEMISTRY | | 10—12 | | 10—12 | | |
| PHYSIOLOGY | Jan. and Feb. 8—11 | | 8—11 | | | 8—11 |
| PATHOLOGY AND BACTERIOLOGY | 2.00—5.30 | 2.00—5.30 | 2.00—5.30 | | 2.00—5.30 | |
| April 8—May 22 ANATOMY (Dissecting) | 8—11.30 1.30—5.30 | 8—11.30 1.30—5.30 | 8—11.30 1.30—5.30 | 8—11.30 1.30—5.30 | 8—11.30 1.30—5.30 | 8—11.30 1.30—5.30 |

## SCHEDULE FOR THE THIRD YEAR

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| INTERNAL MEDICINE | 9—10A | 9—10A* | | 9—11C<br>4.30—6* | | |
| SURGERY | 8—9B<br>10—12C | 10—12C | 8—9B<br>10—12C | 8—9B<br>10—12C | 10—12C | 10—1C |
| MATERIA MEDICA AND THERAPEUTICS | 2—3A | | 2—3A | | 2—3A | |
| OPTHALMOLOGY AND OTOLOGY | | | | | | 8.30—10 |
| GYNECOLOGY | | | 9—10B | | | |
| CLINICAL PATHOLOGY<br>After April 8 | | 2—5 | | 2—5 | | |
| OBSTETRICS | 12—1B | 8—9Ax* | | | 12—1B | |
| DERMATOLOGY<br>First halfterm | | | 8—9 | | | |

A Lecture room on first floor. B Lecture room on second floor. C Clinic. x Quiz. * Every alternate week.

## SCHEDULE FOR THE FOURTH YEAR

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|---|---|---|---|---|---|---|
| INTERNAL MEDICINE | 11—12A | 9—10A* | 9—10A | 9—11C<br>4.30—6* | | |
| SURGERY | 10—11D | 8—9B | 10—12D | 11—12C | 8—9B<br>11—12C | 10—1C |
| MATERIA MEDICA AND THERAPEUTICS | | 2—3A | | 2—3A | | |
| MEDICAL JURISPRUDENCE | Hours of instruction to be hereafter announced | | | | | |
| PUBLIC HYGIENE | Hours of instruction to be hereafter announced | | | | | |
| GYNECOLOGY | | 10—12D | | | | |
| MENTAL DISEASES | Hours of instruction to be hereafter announced | | | | | |

SCHEDULE FOR THE FOURTH YEAR—Continued

| | | | | | | |
|---|---|---|---|---|---|---|
| OPTHALMOLOGY AND OTOLOGY | 8—9A | | | | | 8.30—10C |
| DISEASES OF CHILDREN** | 9—10A | | | 12—1A | | |
| GENITO-URINARY DISEASES First half term | | | | 8—9A | | |
| NEUROLOGY | 12—1 | | | | 12—1A | |
| ORTHOPEDICS | | | | | 9—11C | |
| LARYNGOLOGY AND RHINOLOGY | | | 12—1C | | | |

A Lecture room on first floor. B Lecture room on second floor. C Clinic. D Diagnosis exercise.
x Quiz. * Every alternate week. ** Clinical work aggregating one hour per week.

# THE LIBRARY.

The Library of the Medical School, containing 3,700 volumes, has been combined with that of the College, which numbers over 80,000 volumes. Both collections are under the same administration and are at the service of the medical students. The more recently published medical works and current numbers of professional journals are kept in a separate room in the main library building for their especial use. It is not the policy of the school to furnish text books through its library, or to buy largely in medical literature; yet, by means of the catalogue of the Library of the Surgeon General's Office and the system of inter-library loans, the librarian is able to procure for use in serious investigation almost any book that may be desired.

# TEXT BOOKS.

ANATOMY—Gerrish. For reference, Quain. For use in Histological Laboratory, Dunham.

PHYSIOLOGY—For recitation work, Brubaker's Text Book of Physiology. For reference, Landois, Howell's "American Text Book of Physiology." For Laboratory, Hall's "Experimental Physiology." For reference, Porter's "Introduction to Physiology" and Sterling's "Practical Physiology."

CHEMISTRY—For general reference, Simon, Bartley, Pellew. For reference in urinary analysis, Purdy, Black, Tyson. For use in laboratory, Robinson's Qualitative Chemical Analysis.

PUBLIC HYGIENE—For reference, Harrington, Coplin and Bevan, Parke's "Practical Hygiene," Abbott's "Hygiene of the Transmissible Diseases."

MATERIA MEDICA AND THERAPEUTICS—For recitation work, Hare. For reference. White & Wilcox, H. C. Wood, Cushney, Stevens.

PRACTICE OF MEDICINE—Osler, Hare, Tyson. For reference, Strumpell, Loomis and Thompson's System of Practical Medicine.

DIAGNOSTIC METHODS—Sahli.

PHYSICAL DIAGNOSIS—Cabot, Lefevre.

BACTERIOLOGY—For reference, Abbott, McFarland, Park, Williams.

PATHOLOGY—For recitation, McFarland. For reference, Ziegler, Delafield and Pruden, Coplin, Green.

CLINICAL PATHOLOGY—For reference, Mallory and Wright, Lenhartz-Brooks, Wood.

SURGERY—For recitation, Brewer. For reference, Park. Minor surgery, Wharton. Surgical pathology, Warren.

OBSTETRICS—Williams, Webster, Edgar, Hirst, Reynolds and Newell.

DISEASES OF WOMEN—Dudley, Penrose, Reed, Kelly 2 vols.

DISEASES OF CHILDREN—Holt, Rotch, Williams.

MEDICAL JURISPRUDENCE—Taylor with Bell's Notes, Ewell.

DISEASES OF THE EYE—Nettleship, Swanzay, DeSchweinitz.

DISEASES OF THE EAR—Bacon, Field.

NEUROLOGY—Dana's Text Book of Nervous Diseases, or Oppenheim's "Diseases of the Nervous System."

DERMATOLOGY—Walker's Introduction.

ORTHOPEDIC SURGERY—Bradford and Lovett.

NOSE AND THROAT—Bishop, Knight, Kyle. For reference, L. Brown.

DICTIONARIES—Dorland Illustrated, Gould.

# CALENDAR.

1906.

25 October—Thursday. Entrance Examination: for first year students, at nine o'clock, A. M., in Brunswick.

26 October—Friday. Re-examinations, deferred examinations and examinations for advanced standing for second year in Brunswick, in Anatomy, at nine o'clock, A. M.; in Physiology at two o'clock P. M.; in Chemistry as appointed by the Professor.

27 October—Saturday. Re-examinations, deferred examinations and examinations for advanced standing, for third year, in Anatomy, at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 26th and 27th, at hours to be hereafter appointed.

Thanksgiving Recess from Nov. 28, 1.30 p. m. to 1.30 p. m., Nov. 30th.

Recess from noon of Saturday, December 22d, to morning of Wednesday, January 2d.

1907.

22 February—Friday, Washington's Birthday. Holiday. No exercises.

April—Recess from noon of Saturday, March 30th, to morning of Tuesday, April 9th.

30 May—Thursday, Memorial Day. Holiday. No exercises.

12 to 26 June—Examinations. Wednesday to Wednesday of second week.

26 June—Wednesday. Commencement.

Summer vacation, seventeen weeks.

THE MAINE GENERAL HOSPITAL, PORTLAND